

PATENT ABSTRACTS OF JAPAN

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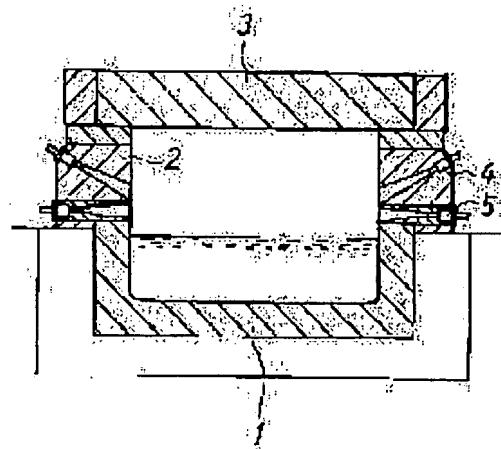
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(54) FEEDER OF GLASS-MELTING FURNACE

(57)Abstract:

PURPOSE: To directly control the atmosphere on a glass surface and to control the temperature of molten glass supplied to a molding machine by placing a nozzle for controlling the atmosphere under a combustion burners attached to both side walls of a feeder of a glass melting furnace.

CONSTITUTION: The feeder of a glass melting furnace is made of channel brick 1, side wall brick 2 and ceiling brick 3. The side wall brick 2 is provided with a number of combustion burners 4 inclining downward and a number of nozzles 5 for the control of atmosphere under the combustion burners. An atmosphere-controlling gas having oxidizing or reducing nature (e.g. air or nitrogen gas) is blown from these nozzles 5 to effect the direct control of the atmosphere near the surface of the glass. Since the control can be carried out independently of the combustion of the burners, the controlling range can be expanded. The feeder is especially suitable for the case requiring rigorous control of the atmosphere such as a color feeder to charge a coloring frit or pellet in the feeder.



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